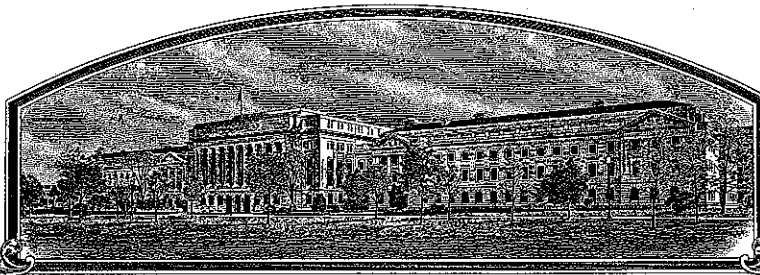


No.

200100243



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Mississippi Agricultural and Forestry Experiment Station

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

COTTON

'Miscot 8806'



In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this twelfth day of December, in the year two thousand and five.

Attest:

[Signature]
Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

[Signature]
Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following state-ments are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

1. NAME OF OWNER Mississippi Agricultural and Forestry Experiment Station		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME 8806-3-2-19		3. VARIETY NAME MISCOT 8806	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) Box 9740 210 Bost Building Mississippi State, MS 39762-9740		5. TELEPHONE (include area code) 662-325-3000		FOR OFFICIAL USE ONLY PVPO NUMBER 200100243	
		6. FAX (include area code) 662-325-3001		FILING DATE August 3, 2001	
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Education/Research Institution		8. IF INCORPORATED, GIVE STATE OF INCORPORATION		9. DATE OF INCORPORATION	
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) Vance H. Watson, Director Mississippi Agricultural and Forestry Experiment Station Box 9740 210 Bost Building Mississippi State, MS 39762-9740				FILING AND EXAMINATION FEES: \$ 2450.00 DATE 08/03/01 CERTIFICATION FEE: \$ 682.00 DATE 9/22/05	
11. TELEPHONE (include area code) 662-325-3000		12. FAX (include area code) 662-325-3001		13. E-MAIL watson@mafes.msstate.edu	
14. CROP KIND (Common Name) cotton		15. GENUS AND SPECIES NAME OF CROP Gossypium hirsutum		16. FAMILY NAME (Botanical) Malvaceae	
17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse) a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety d. <input type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$2,450), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)			
19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? See Section 83(a) of the Plant Variety Protection Act <input type="checkbox"/> YES (If "yes", answer items 20 and 21 below) <input checked="" type="checkbox"/> NO (If "no," go to item 22)		20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
21. IF "YES" TO ITEM 20, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED? <input checked="" type="checkbox"/> FOUNDATION <input checked="" type="checkbox"/> REGISTERED <input checked="" type="checkbox"/> CERTIFIED		22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)			
23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)		24. The owners declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.			
SIGNATURE OF OWNER Nancy M Cox for Vance H. Watson		SIGNATURE OF OWNER			
NAME (Please print or type)		NAME (Please print or type)			
CAPACITY OR TITLE		DATE		CAPACITY OR TITLE	
DATE		CAPACITY OR TITLE		DATE	

INSTRUCTIONS

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,450 (\$300 filing fee and \$2,150 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. **DO NOT** use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$300 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office

Telephone: (301) 504-5518

FAX: (301) 504-5291

Homepage: <http://www.ams.usda.gov/science/pvp.htm>

ITEM

- 18a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) evidence of uniformity and stability; and (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
- (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
19. If "Yes" is specified (*seed of this variety be sold by variety name only, as a class of certified seed*), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
23. See Section 5.5 of the Act for instructions on claiming the benefit of an earlier filing date.

22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center-East, Beltsville, MD 20705. Telephone: (301) 504-8089.

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM, AG Box 7630, Jamie L. Whitten Building, Washington, D.C. 20250. When replying, refer to OMB No. 0581-0055 and form number in your letter. Under the PRA of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

The U.S. Department of Agriculture (USDA) prohibits discrimination in its programs on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, and marital or familial status. (Not all prohibited bases apply to all programs). Persons with disabilities who require alternative means for communication of program information (braille, large print, audiotape, etc.) should contact the USDA Office of Communications at (202) 720-2791. To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call (202) 720-7327 (voice) or (202) 720-1127 (TDD). USDA is an equal opportunity employer.

S&T-470 (6-98) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces STD-470 (03-96) which is obsolete.

EXHIBIT A Origin and Breeding History**1. Genealogy**

MISCOT 8806 originated from a cross developed at Mississippi State University in 1988 between the commercial cutliver DES 119 and germplasm line Tamcot CDP37HPIH-1-1-86. The pedigree plant breeding method was utilized in development. Tamcot strain CDP37HPIH-1-1-86 originated from a cross between Tamcot CD3H and Pora Intra, an upland strain from Argentina. An individual F2 plant, designated 8806-3, was selected and planted to an F2:F3 progeny row in 1990. A individual F3 plant, designated 8806-3-2, was planted to an F3:F4 progeny row in 1991, bulk harvested, and advanced to the F7 generation. In 1994, a single F3:F7 plant was selected and given the designation 8806-3-2-19. Following seed increase and extensive testing, 8806-3-2-19 was given the varietal designation MISCOT 8806, in 2001.

2. Selection and Multiplication

YEAR	GENERATION	SELECTION	LOCATION
1988	F0	Initial cross	MSU [†]
1988-9	F1	F1 Bulk	MSU - Greenhouse
1989	F2	Single plant selected on appearance, intermediate leaf hairs, and for high fiber quality	MSU
1990	F2:F3	Single plant selected for high fiber quality within high yielding F2F3 progeny row	MSU
1991	F3:F4	Bulk harvest - no selection	Stoneville, MS
1992	F3:F5	Bulk harvest - no selection	Stoneville, MS
1993	F3:F6	Bulk harvest - no selection	MSU
1994	F3:F7	Single plant selected for intermediate leaf hairs, high fiber quality and visual productivity	MSU
1995	F7:F8	Bulk harvest	Brooksville, MS
1996	F9	Bulk/Rogue off-types	Brooksville, MS
1997	F10	Bulk/Rogue off-types	Brooksville, MS
1998-2000	F11-F13	Breeder Increase	MSU

[†]Mississippi State, MS

200100243
REPLACEMENT
7/19/04 LAW

EXHIBIT A (Continued)

Origin and Breeding History

3. Uniformity and Stability

MISCOT 8806 has been observed for four years of replicated yield testing and has been found to be stable and uniform for all morphological traits.

4. Frequency of Variants

Plants of MISCOT 8806 are characterized as having normal bracts and intermediate pubescence of the bottom leaf surface. However, a low frequency of plants with the frego bract trait and hairy leaves (less than 1 percent) have been observed and are described as variants.

200100243
REPLACEMENT
7/29/04 LAL

EXHIBIT B Statement of Distinctness

MISCOT 8806 is an Upland variety with an open/loose boll suitable for picker-type harvesting. Stripper varieties are distinguished primarily by a more compact boll. Upland picker varieties are distinguished from Acala-type varieties primarily by earlier maturity, shorter fiber length, and reduced fiber strength.

MISCOT 8806 is different from all other picker-type varieties in both agronomic and fiber properties.

Stoneville 474 was used a comparison check variety because of it's similarities with MISCOT 8806[†]. Agronomically, Stoneville 474 was the highest yielding commercial variety available at the initiation of testing. Characteristics which distinguish MISCOT 8806 from Stoneville 474 are: Lint yield, lint percentage, fiber strength, fiber length, fiber micronaire, uniformity index, earliness, seedcotton/boll, and node of first fruiting branch.

Novelty of MISCOT 8806 is claimed based upon significant differences for the following characters between one or more of the comparison varieties (ANOVA and LSD $p=0.05$).

Characteristics of MISCOT 8806	Compared to STONEVILLE 474:	TABLES
Lint Yield	greater	1
Lint Percent	less	2
Fiber Strength	greater	3
Fiber Length	greater	4
Micronaire	less	5
Uniformity Index	greater	6
Yield & Fiber Summary		7
Earliness	greater	8, 9
Seedcotton / boll	greater	10, 11
Fruiting Node	less	12
Yield (tobacco budworm infested plots)	less	13

EXHIBIT B (continued)

List of tables comparing MISCOT 8806 with Stoneville 474.

TABLE	TITLE	YEAR	LOC
1	Comparison of MISCOT 8806 to Suregrow 501 and Stoneville 474 for lint yield in 21 environments.	1999 2000	MS
2	Comparison of MISCOT 8806 to Suregrow 501 and Stoneville 474 for lint percentage in 21 environments.	1999 2000	MS
3	Comparison of MISCOT 8806 to Suregrow 501 and Stoneville 474 for fiber strength in 21 environments.	1999 2000	MS
4	Comparison of MISCOT 8806 to Suregrow 501 and Stoneville 474 for fiber length in 21 environments.	1999 2000	MS
5	Comparison of MISCOT 8806 to Suregrow 501 and Stoneville 474 for fiber micronaire in 21 environments.	1999 2000	MS
6	Comparison of MISCOT 8806 to Suregrow 501 and Stoneville 474 for fiber uniformity index in 21 environments.	1999 2000	MS
7	Summary of means for yield and fiber traits over 21 environments.	1999 2000	MS
8	Comparison of MISCOT 8806 to Stoneville 474 for earliness in 9 environments.	1996- 2000	MS, TX, AR, LA
9	Summary of means for earliness.	1996- 2000	MS, TX, AR, LA
10	Comparison of MISCOT 8806 to Suregrow 501 and Stoneville 474 for seedcotton/boll in 9 environments.	2000	AZ, LA MS, TX
11	Summary of means for seedcotton/boll.	2000	AZ, LA MA, TX
12	Comparison of MISCOT 8806 to Suregrow 501 and Stoneville 474 for fruiting node, fruiting node height, and plant height in two environments.	1999- 2000	MS
13	Evaluation of MISCOT 8806 for resistance to Tobacco budworm/bollworm at Mississippi State in 2000.	2000	MS

MISCOT 8806 (PVP # 200100243)

"MISCOT 8806 is most similar to Stoneville 474 except that MISCOT 8806 has greater lint yield, fiber strength, fiber length, uniformity index, earliness, and seedcotton per boll; and reduced lint percentage, micronaire, and node of first fruiting branch (fruiting node)."

U.S. DEPARTMENT OF AGRICULTURE
PLANT VARIETY PROTECTION OFFICE, AMS, USDA
NATIONAL AGRICULTURAL LIBRARY Bldg., Rm. 500
10301 BALTIMORE Blvd.
BELTSVILLE, MD 20705

OBJECTIVE DESCRIPTION OF VARIETY
COTTON (*Gossypium* spp.)

NAME OF APPLICANT(S) Mississippi Agricultural and Forestry Experiment Station Vance H. Watson, Director	TEMPORARY DESIGNATION 8806-3-2-19	VARIETY NAME MISCOT 8806
--	--------------------------------------	-----------------------------

ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code)

Box 9740
210 Bost Building
Mississippi State, MS 39762-9740

FOR OFFICIAL USE ONLY

PVPO NUMBER

200100243

Place the appropriate data that describes the varietal characteristic of this variety in the space provided. Characteristics described, including numerical measurements, should represent those that are typical for the variety. Royal Horticultural Society or any recognized color fan may be used to determine plant colors. Characters marked with an asterisk * indicate necessary characters to be measured.

SPECIFIC VARIETIES USED FOR COMPARISON AS CHECK VARIETIES IN THIS APPLICATION: Use standard regional check varieties which are adapted to your area. One of the comparison varieties must be the most similar variety used in Exhibit B.

Variety 1. Stoneville 474 Variety 2. Suregrow 501 Variety 3. _____

*1. SPECIES:

 X *G. hirsutum* L. *G. barbadense* L.

*2. AREA(S) OF ADAPTATION: (A = Adapted, NA = Not Adapted, NT = Not Tested)

<u> A </u> Eastern <u> NA </u> Plains <u> </u> Other (Specify): _____	<u> A </u> Delta <u> NT </u> Western	<u> NT </u> Central <u> NA </u> Arizona	<u> NT </u> Blacklands <u> NT </u> San Joaquin
---	---	--	---

3. GENERAL: Characteristics which are known to be variable but are still useful for a meaningful description of the variety.

	Application Variety	Comparison Variety 1	Comparison Variety 2	Comparison Variety 3
--	---------------------	----------------------	----------------------	----------------------

Plant Habit:

Spreading, Intermediate, Compact	<u>Compact</u>	<u>Compact</u>	<u>Compact</u>	
----------------------------------	----------------	----------------	----------------	--

Foliage:

Sparse, Intermediate, Dense	<u>Intermediate</u>	<u>Intermediate</u>	<u>Intermediate</u>	
-----------------------------	---------------------	---------------------	---------------------	--

Stem Lodging:

Lodging, Intermediate, Erect	<u>Intermediate</u>	<u>Erect</u>	<u>Erect</u>	
------------------------------	---------------------	--------------	--------------	--

Fruiting Branch:

Clustered, Short, Normal	<u>Normal</u>	<u>Normal</u>	<u>Normal</u>	
--------------------------	---------------	---------------	---------------	--

Growth:

Determinate, Intermediate, Indeterminate	<u>Intermediate</u>	<u>Intermediate</u>	<u>Intermediate</u>	
---	---------------------	---------------------	---------------------	--

Leaf Color:

Greenish yellow, Light green, Medium green, Dark green	<u>Light green</u>	<u>Light green</u>	<u>Light green</u>	
---	--------------------	--------------------	--------------------	--

200100243

Length > width Length > width Length > width _____

Broadest at base Broadest at base Broadest at base _____

% of first harvest	57.0	51.0	56.8	
data of 50% open only				

15.9 17.6 17.5 _____

5.6 6.9 6.0 _____

a) 65.8 64.0 61.9 _____

Sparse Medium Sparse _____

Present	Present	Present	

Glabrous, Intermediate, Hairy Intermediate Intermediate Intermediate _____

Leaf: Normal Normal Normal

Stem: Normal Normal Normal

Calyx Lobe: (normal is absent) Normal Normal Normal

Petals: Cream, Yellow Cream Cream Cream _____

Pollen: Cream, Yellow Cream Cream Cream _____

Petal Spot: Present, Absent Absent Absent Absent _____

Seed Index: 9.8 9.5 9.7 _____
(g/100 seed, fuzzy basis)

Lint Index:
(g lint/100 seeds)

*11. BOLL:

200100243

Lint Percent:

 Picked X Pulled 37.2 39.7 38.3

OR

Gin Turnout:

 Picked Stripped

Number of Seeds per Boll

Grams Seed Cotton per Boll 4.40 4.33 4.62

Number of Locules per Boll 4-5 4-5 4-5

Boll Type:

(Stormproof, Storm Resistant, Open) open open open

12. FIBER PROPERTIES:

Specify Method (HVI or other): HVI

* Length: (inches, 2.5% SL) 1.11 1.09 1.09

* Uniformity: (%) 84.2 83.7 84.2

* Strength, T1 (g/tex) 30.8 29.0 31.7

* Elongation, E1 (%) 7.75 7.70 8.16

* Micronaire: 4.57 4.80 4.79

Fineness (Source)

Yarn Tenacity: (cN/tex, 27 tex)

Yarn Strength: (lbs. 22's)

13. DISEASES: (NT = Not Tested, S = Susceptible, MS = Moderately Susceptible, MR = Moderately Resistant, R = Resistant)

 NT *Alternaria macrospora*

 MR Fusarium Wilt

 NT Anthracnose

 NT Phymatotrichum Root Rot

 NT Ascochyta Blight

 NT *Pythium* (specify species)

 NT Bacterial Blight (Race 1)

 NT *Rhizoctonia solani*

 NT Bacterial Blight (Race 2)

 NT Southwestern Cotton Rust

 NT Bacterial Blight (Race)

 NT Thielaviopsis basicola

 NT Diplodia Boll Rot

 NT Verticillium Wilt

 Other (specify)

14. NEMATODES, INSECTS AND PESTS: (NT = Not Tested, S = Susceptible, MS = Moderately Susceptible, MR = Moderately Resistant, R = Resistant)

NT Root-Knot Nematode

NT Reniform Nematode

NT Boll Weevil

NT Grasshopper (specify species): _____

NT Bollworm

NT Lygus (specify species): _____

NT Cotton Aphid

NT Pink Bollworm

NT Cotton Fleahopper

NT Spider Mite (specify species): _____

NT Cotton Leafworm

NT Stink Bug (specify species): _____

NT Cutworm (specify species): _____

NT Thrips (specify species): _____

NT Fall Armyworm

MR Tobacco Bud Worm

NT Other (specify): _____

15. COMMENTS: Present any additional information that cannot adequately be described in 1 through 13 which significantly distinguishes you variety.

200100243
REPLACEMENT
7/29/04 LAW

Table 7. Summary of means for yield and fiber traits over 21 environments.

Entry	Lint Yield	Lint Percent	Fiber Strength	Fiber Length	Micronaire	Fiber Elongation	Uniformity Index	Seed Index†
	lbs/a	%	gms/tex	inches		%		gms/100
MISCOT 8806	a± 1159	c 37.2	b 30.8	a 1.11	b 4.57	b 7.75	a 84.2	b 9.8
Suregrow 501‡	b 1027	b 38.3	a 31.7	b 1.09	a 4.79	a 8.16	a 84.2	b 9.7
Stoneville 474	b 1029	a 39.7	c 29.0	b 1.09	a 4.80	b 7.70	b 83.7	b 9.5
Mean	1077	37.9	29.9	1.10	4.68	7.79	84.0	9.8
Entry (Prob. > F)	0.0044	0.0001	0.0001	0.0001	0.0001	0.0001	0.0182	0.0110
LSD	76	0.57	0.78	0.01	0.11	0.14	0.39	0.31
CV%	11.0	2.3	4.1	1.90	3.58	2.81	0.72	4.1
R-square	0.97	0.96	0.93	0.94	0.96	0.98	0.93	0.96

† Seed index - 17 environments.

‡ Means within same column with different letters are significantly different according to LSD at $p = 0.05$.

200100243
REPLACEMENT
7/29/04 LAW

Table 8. Comparison of MISCOT 8806 to Stoneville 474 for earliness in 9 environments.

YEAR	TEST	Location	n (reps)	Earliness (%)		
				MISCOT 8806	Stoneville 474	LSD(0.05)
1996	Strains	Brks	4	18.2	16.8	13.1
1996	Strains	MSU	4	49.9	37.4	13.4
1996	Strains	Petal	4	25.5	16.9	10.5
1997	Strains	MSU	4	41.5	33.1	16.5
1998	RSST	Lbbk	4	76.0	66.0	11.0
1999	RSST	Keiser	4	48.0	58.0	12.0
2000	OVT	Alex	4	97.7	91.4	3.2
2000	OVT	Edge	4	76.0	65.0	†
2000	RSST	Lbbk	4	77.0	76.0	13.0
		MEAN	36	57.0*	51.0	5.4

†LSD for individual location not available

*Significantly different from Stoneville 474.

200100243
REPLACEMENT
7/29/04 LAW

Table 9. Summary of means for earliness.

Entry	Earliness	Entry	Earliness
	%		%
MISCOT 8806	a [†] 57.0	MISCOT 8806	66.1
Stoneville 474	b 51.0	Suregrow 501	56.8
Mean	53.9		61.4
n (loc)	9		4
Entry (Prob. > F)	0.05		0.13
LSD	5.4		14.1
CV%	9.2		10.2
R-square	0.98		0.97

[†]Means within same column with different letters are significantly different according to LSD at $p = 0.05$.

200/00243
REPLACEMENT
7/29/04 LAW

Table 10. Comparison of MISCOT 8806 to Suregrow 501 and Stoneville 474 for seedcotton/boll in 9 environments.

YEAR	TEST	Location	n (reps)	Seedcotton/Boll (gms)					
				MISCOT 8806	Suregrow 501	Stoneville 474	TRIAL MEAN	LSD(0.05)	C.V.%
2000	LAOVT	ALEX/LA	4	5.0	4.9	4.7	4.9	0.40	5.6
2000	LAOVT	BOS/LA	4	3.9	4.4	3.9	4.3	0.40	5.7
2000	LAOVT	STJO/LA	4	4.4	4.8	4.3	4.4	0.30	4.3
2000	LAOVT	WINIR/LA	4	4.3	4.7	4.1	4.5	0.50	6.5
2000	LAOVT	WINDR/LA	4	3.7	3.9	3.6	3.9	0.90	13.3
2000	AZOVT	MARA/AZ	5	5.1	5.6	5.3	5.4	0.30	5
2000	TXRSST	LBCK/TX	4	4.3	3.9	4.4	4.7	0.60	7.8
2000	MSRSST	MSU/MS	6	4.3	4.7	4.1	4.7	0.60	7.5
2000	MSUSDA	USDA/MS	4	4.6	4.7	4.6	5.1	0.36	4.9
		MEAN	9+	4.4	4.6	4.3			

+ - Number of environments

200100243
REPLACEMENT
7/29/04 LAW

Table 11. Summary of means for seedcotton/boll.

Entry	Seedcotton [†] per Boll (g)
8806	b† 4.40
SG 501	a 4.62
STV 474	c 4.33
Mean	4.45
Loc (reps)	9
Prob. > F‡	0.0001
LSD (0.05)	0.06
C.V.%	1.3

†Means within column with different letters are significantly different according to LSD test $p = 0.05$.

‡For entry, probability greater than F value.

200100243
REPLACEMENT
7/29/04 LAW

Table 12. Comparison of MISCOT 8806 to Suregrow 501 and Stoneville 474 for fruiting node, fruiting node height, and plant height in two environments¹.

	Fruiting	Fruiting	Plant
Entry	Node†	Node Ht‡	Height
MIS 8806	b¶ 5.6	a 15.9	a 65.8
STV 474	a 6.9	a 17.6	ab 64.0
SG 501	b 6.0	a 17.5	b 61.9
Mean	6.2	17.0	63.9
Reps	12	12	12
LSD (0.05)	0.6	2.2	3.8
C.V.%	12.5	16.1	7.1

¹1999 and 2000 MSU Variety Trials.

†Node of first fruiting branch

‡Height (cm) to first fruiting branch.

¶Means within same column with different letters are significantly different according to LSD at $p = 0.05$.

200100243
REPLACEMENT
7/29/04 LAL

Table 13. Evaluation of MISCOT 8806 for resistance to tobacco budworm/bollworm at Mississippi State in 2000.

Entry	Lint Yield		Lint	Percent
	Spray1	Worms2	Loss	of Potential
	lbs/a	lbs/a	lbs/a	%
8806-3-2-19	1076 (2)†	a [‡] 921 (2)	155 (9)	86.7 (9)
STV 474	763 (17)	b 455 (24)	308 (23)	62.4 (26)
SG 501	1030 (8)	b 675 (14)	354 (27)	65.0 (23)
Entries	28	28	28	28
LSD (0.05)	209	177	220	25.8

1 Plots protected from bollworm/budworms

2 Plots infested six times with tobacco budworms

†Ranking among 28 entries.

‡ Means within same column with different letters are significantly different according to LSD at $p = 0.05$.

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) Mississippi Agricultural and Forestry Experiment Station Vance H. Watson, Director	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER 8806-3-2-19	3. VARIETY NAME MISCOT 8806
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) Box 9740 210 Bost Building Mississippi State, MS 39762-9740	5. TELEPHONE (include area code) 662-325-3000	6. FAX (include area code) 662-325-3001
7. PVPO NUMBER 200100243		
8. Does the applicant own all rights to the variety? Mark an "X" in appropriate block. If no, please explain. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		

9. Is the applicant (individual or company) a U.S. national or U.S. based company? If no, give name of country	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
10. Is the applicant the original owner?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO If no, please answer one of the following:
a. If original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. national(s)? <input type="checkbox"/> YES <input type="checkbox"/> NO If no, give name of country	
b. If original rights to variety were owned by a company(ies), is(are) the original owner(s) a U.S. based company? <input type="checkbox"/> YES <input type="checkbox"/> NO If no, give name of country	
11. Additional explanation on ownership (if needed, use reverse for extra space):	

PLEASE NOTE:

Plant variety protection can be afforded only to owners (not licensees) who meet one of the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in its programs on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, and marital or familial status. (Not all prohibited bases apply to all programs). Persons with disabilities who require alternative means for communication of program information (braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call 1-800-245-6340 (voice) or (202) 720-1127 (TDD). USDA is an equal employment opportunity employer.

STD-470-E (07-97) (Destroy previous editions).

Electronic version designed using WordPerfect InForms by USDA-AMS-IMB.

EXHIBIT E - ADDITIONAL EXPLANATION ON OWNERSHIP - IF NEEDED???:

MISCOT 8806 originated from a cross made by the Cotton Breeding Program of Mississippi Agricultural & Forestry Experiment Station (MAFES). Subsequent selection, evaluations, and increase was performed solely under the direction of MAFES personnel. The Mississippi Agricultural & Forestry Experiment Station retains all rights and ownership of MISCOT 8806 cotton variety.